

1   **WHAT IS CLAIMED IS:**

2           1. An early warning braking system for automobiles mainly relies on an  
3   electronic detector (30) installable over and above an accelerator pedal (10) or in  
4   the vicinity of the accelerator pedal (10) to monitor a driver's foot motion, and  
5   the electronic detector (30) is connected to a control circuit that is linked to a  
6   pre-braking signal light (50), such that when the driver's foot is withdrawn from  
7   the accelerator pedal (10), the electronic detector (30) receives signals of the foot  
8   motion, and a control circuit then causes a pre-braking signal light (50) to be  
9   turned on for forewarning drivers in following cars of impending braking.

10          2. The early warning braking system as claimed in claim 1, wherein the  
11   electronic detector (30) can be installed underneath a dash panel of the car.

12          3. The early warning braking system as claimed in claim 1, wherein the  
13   electronic detector (30) can be installed over and above the accelerator pedal  
14   (10).

15          4. The early warning braking system as claimed in claim 1, wherein the  
16   electronic detector (30) is an infrared sensing means.

17          5. The early warning braking system as claimed in claim 1, wherein the  
18   electronic detector (30) is an optical sensing means.

19          6. The early warning braking system as claimed in claim 1, wherein the  
20   pre-braking signal light (50) can be installed next to a central brake light (40).

21          7. The early warning braking system as claimed in claim 1, wherein the  
22   pre-braking signal light (50) can be installed next to tail-end brake lights (40).

23          8. The early warning braking system as claimed in claim 1, wherein the  
24   pre-braking signal light (50) can be combined with a regular braking light (40),

by using a twin filament light apparatus, where one filament represents the pre-braking signal light (50) and the other filament represents a regular braking light for dual function display.

9. The early warning braking system as claimed in claim 1, wherein the pre-braking signal light (50) can be set up by the control circuit for continuous lighting.

10. The early warning braking system as claimed in claim 1, wherein the pre-braking signal light (50) can be set up through the control circuit for flashing mode.

11. An early warning braking system for automobiles mainly relies on an electronic detector (30) installable over and above a brake pedal (20) or in the vicinity of the brake pedal (20) to monitor a driver's foot motion, and the electronic detector (30) is connected to a control circuit that is linked to a pre-braking signal light (50), such that when the driver's foot is stepped on the brake pedal (20), the electronic detector (30) picks up signals of foot motion, and the control circuit causes the pre-braking signal light (50) to be turned on for forewarning drivers in following cars of impending braking of the automobile fitted with the early warning braking system.

12. The early warning braking system as claimed in claim 11, wherein the electronic detector (30) can be installed, underneath a dash panel of the automobile, or over and above the brake pedal (20) of the automobile.

13. The early warning braking system as claimed in claim 11, wherein the electronic detector (30) can be installed on the brake pedal (20).

14. The early warning braking system as claimed in claim 11, wherein

1 the electronic detector (30) is an infrared sensing means.

2 15. The early warning braking system as claimed in claim 11, wherein  
3 the electronic detector (30) is an optical sensing means.

4 16. The early warning braking system as claimed in claim 11, wherein  
5 the pre-braking signal light (50) can be installed next to a central brake light (40).

6 17. The early warning braking system as claimed in claim 11, wherein  
7 the pre-braking signal light (50) can be installed next to tail-end brake lights (40).

8 18. The early warning braking system as claimed in claim 11, wherein  
9 the pre-braking signal light (50) can be combined with a regular braking light  
10 (40), by using a twin filament light apparatus, where one filament represents the  
11 pre-braking signal light (50) and the other filament represents a regular braking  
12 light for dual function display.

13 19. The early warning braking system as claimed in claim 11, wherein  
14 the pre-braking signal light (50) can be set up by the control circuit for  
15 continuous lighting.

16 20. The early warning braking system as claimed in claim 11, wherein  
17 the pre-braking signal light (50) can be set up through the control circuit for  
18 flashing mode.